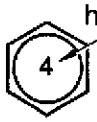
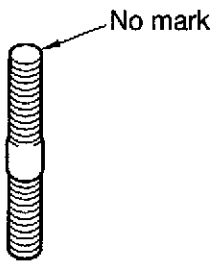
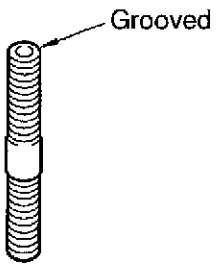
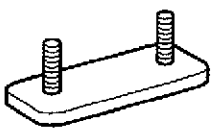
STANDARD BOLT

HOW TO DETERMINE BOLT STRENGTH

S500F-02

	Mark	Class
Hexagon head bolt	 Bolt head No. 4– 5– 6– 7– 8– 9– 10– 11–	4T 5T 6T 7T 8T 9T 10T 11T
	 No mark	4T
Hexagon flange bolt w/ washer hexagon bolt	 No mark	4T
Hexagon head bolt	 2 Protruding lines	5T
Hexagon flange bolt w/ washer hexagon bolt	 2 Protruding lines	6T
Hexagon head bolt	 3 Protruding lines	7T
Hexagon head bolt	 4 Protruding lines	8T

	Mark	Class
Hexagon flange bolt w/ washer hexagon bolt	 4 Protruding lines	9T
Hexagon flange bolt w/ washer hexagon bolt	 5 Protruding lines	10T
Hexagon flange bolt w/ washer hexagon bolt	 6 Protruding lines	11T
Stud bolt	 No mark	4T
	 Grooved	6T
Welded bolt		4T

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SPECIFIED TORQUE FOR STANDARD BOLTS

Class	Diameter mm	Pitch mm	Specified torque						
			Hexagon head bolt				Hexagon flange bolt		
			N·m	kgf·cm	ft·lbf		N·m	kgf·cm	ft·lbf	
4T	6	1	5	55	48	in.·lbf	6	60	52	in.·lbf
	8	1.25	12.5	130	9		14	145	10	
	10	1.25	26	260	19		29	290	21	
	12	1.25	47	480	35		53	540	39	
	14	1.5	74	760	55		84	850	61	
	16	1.5	115	1,150	83		–	–	–	
5T	6	1	6.5	65	56	in.·lbf	7.5	75	65	in.·lbf
	8	1.25	15.5	160	12		17.5	175	13	
	10	1.25	32	330	24		36	360	26	
	12	1.25	59	600	43		65	670	48	
	14	1.5	91	930	67		100	1,050	76	
	16	1.5	140	1,400	101		–	–	–	
6T	6	1	8	80	69	in.·lbf	9	90	78	in.·lbf
	8	1.25	19	195	14		21	210	15	
	10	1.25	39	400	29		44	440	32	
	12	1.25	71	730	53		80	810	59	
	14	1.5	110	1,100	80		125	1,250	90	
	16	1.5	170	1,750	127		–	–	–	
7T	6	1	10.5	110	8		12	120	9	
	8	1.25	25	260	19		28	290	21	
	10	1.25	52	530	38		58	590	43	
	12	1.25	95	970	70		105	1,050	76	
	14	1.5	145	1,500	108		165	1,700	123	
	16	1.5	230	2,300	166		–	–	–	
8T	8	1.25	29	300	22		33	330	24	
	10	1.25	61	620	45		68	690	50	
	12	1.25	110	1,100	80		120	1,250	90	
9T	8	1.25	34	340	25		37	380	27	
	10	1.25	70	710	51		78	790	57	
	12	1.25	125	1,300	94		140	1,450	105	
10T	8	1.25	38	390	28		42	430	31	
	10	1.25	78	800	58		88	890	64	
	12	1.25	140	1,450	105		155	1,600	116	
11T	8	1.25	42	430	31		47	480	35	
	10	1.25	87	890	64		97	990	72	
	12	1.25	155	1,600	116		175	1,800	130	

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